

## 10. Pratik

**Program Name: Pratik.java**

**Input File: pratik.dat**

Pratik lives in Texas, but has family members spread out all across the world. His Aunt Tapasi lives in Kolkata, India, his grandpa Aadi lives in Nepal, and his second-cousin Bongi lives in Cape Town, South Africa. Cousin Gulasyl lives in Aktobe, Kazakhstan, and Uncle Ardem lives in Ukraine!

Right now, the only member of his family that lives near him is his mother. Because of his international family, Pratik is finding it more and more difficult to keep up with everyone's whereabouts, and because of the different time zones, determining a suitable time of day to call and visit. Pratik wants to keep in touch with his family, and is asking for your help.

Given Pratik's current time of day, who resides in the US Central time zone, equivalent to GMT-6, and which family member he is trying to call, render for him a digital clock, in 24-hour time, representing the time it is for that family member.

Here are the lists of time zones for his family members:

- Cape Town, South Africa: GMT+2
- Kolkata, India: GMT+5:30
- Nepal: GMT+5:45
- Ukraine: GMT+2
- Aktobe, Kazakhstan: GMT+5

The only members of his family that he will ever try to call are: Aunt Tapasi, Grandpa Aadi, Second Cousin Bongi, Cousin Gulasyl, Uncle Ardem, and Mom.

**Input:** The first line, N, will be the number of data sets to follow. Each data set has two lines. The first line is the time for Pratik, given in 12 hour time, followed by an 'am' or a 'pm'. The second line is the family member he is intending to call.

**Output:** For each data set, output the time for the given family member, as a digital clock, in 24-hour time. Each digit of the 24-hour clock is 5x5 characters and made up of '#', except the colon separating the number, which is made of periods. There should be a new line between each data set for separation.

**Sample input:**

```
3
4:53 pm
Aunt Tapasi
8:59 am
Second Cousin Bongi
6:07 pm
Mom
```

**Sample output:**

```
##### # # ##### #####
# # # # . # #
# # ##### #####
# # # # . # #
##### # ##### #####

# ##### #####
# # . # #
# ##### #####
# # # . #
# ##### #####
```